SilverStripe®

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Background

Google Summer
of Code Student 2007

Multiple Database Support

Background

Learn by doing: less theory, more results

SilverStripe 2.4
Module Extension, Themes, and Widgets

Create smashing SilverStripe applications by extending modules, creating themes, and adding widgets

Beginner's Guide

Philipp Krenn

[PACKT] PUBLISHING open source*
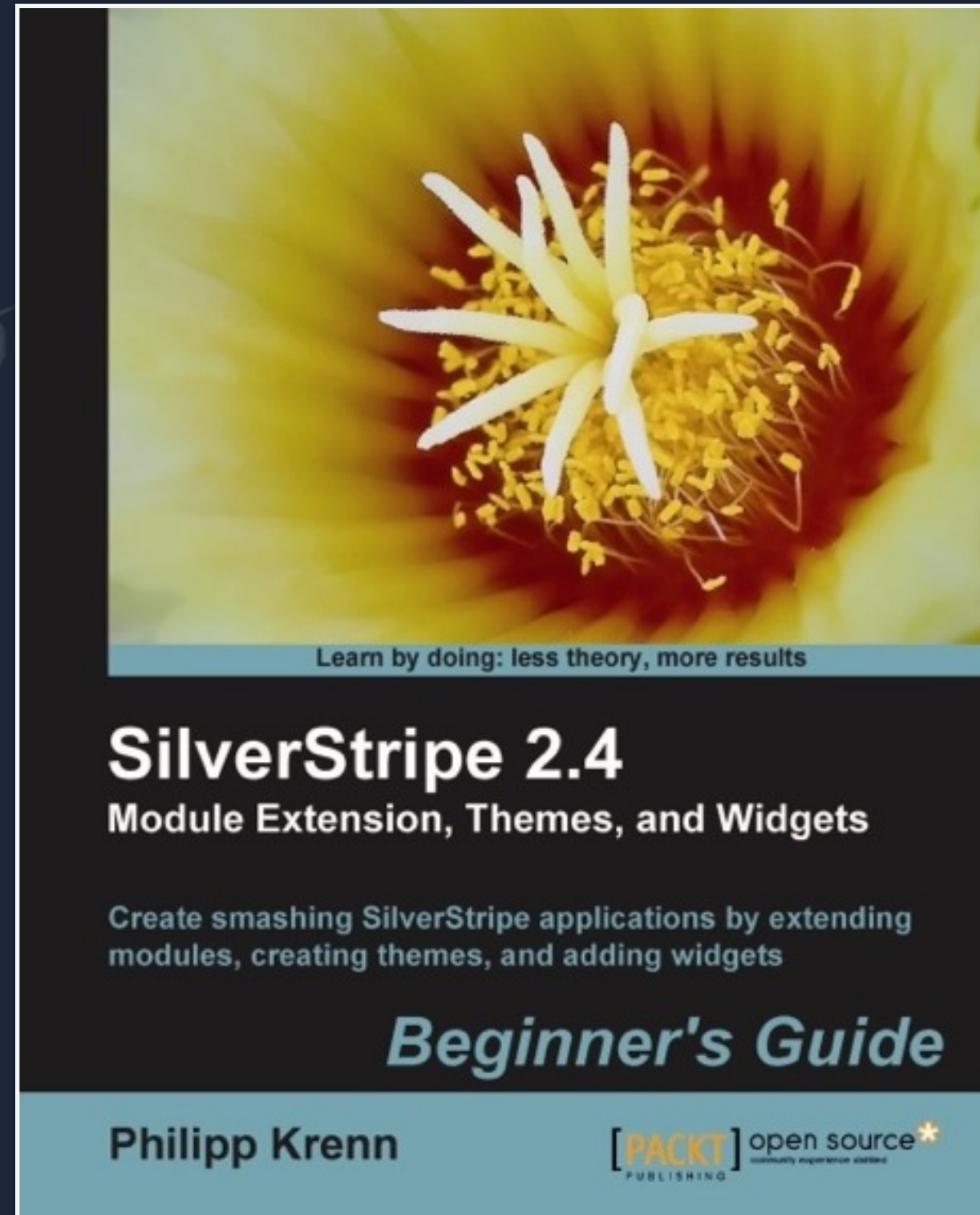
Background

GSoC Mentor 2012: Yuki Awano

Content Personalization

Ecosystem

☐ **BSD licensed — http://www.silverstripe.org**

☐ **SilverStripe Ltd. — http://www.silverstripe.com**

Development

2.1

2.0 2.2   2.3   2.4   3.0 3.1

2007   2008   2009   2010   2011   2012   2013

Installation

Requirements

- ☐ Apache httpd, nginx, lighttpd, IIS

- ☐ PHP 5.3+

- ☐ MySQL 5.0+

  - ☐ PostgreSQL 8.3+, SQL Server 2008+, SQLite 3.3+ via modules

- ☐ Chrome, Firefox, IE 8+ (Safari) for the CMS

- ☐ Composer recommended

Preparation

☐ **Empty database** viennaphp

☐ **nginx configuration**

    ☐ **_silverstripe3: https://gist.github.com/xeraa/9527232**

```
server {
        root /Users/philipp/Sites/viennaphp;
        server_name viennaphp.local;
        include _silverstripe3;
}
```

☐ ***/etc/hosts:*** 127.0.0.1 http://viennaphp.local

Installation

- [ ] $ composer create-project silverstripe/installer ~/Sites/viennaphp 3.1.3

- [ ] **http://viennaphp.local**

- [ ] $ chmod -R 777 ~/Sites/viennaphp/assets/
  $ chmod 777 ~/Sites/viennaphp/mysite/_config.php

CMS

Overview

☐ **http://viennaphp.local/admin/**

    ☐ **Pages**

    ☐ **Files**

    ☐ **Reports**

    ☐ **Security**

    ☐ **Settings**

First Steps

☐ **Change the CMS language and date formats**

☐ **Change the site title and slogan**

Pages

- ☐ Content

- ☐ Settings

- ☐ History

- ☐ Viewing modes

    - ☐ Split (screen size dependent)

    - ☐ Preview including different devices

    - ☐ Edit

CSS

☐ *themes/simple/css/typography.css*

.typography h1 {

  ...

   background: #ee5757;

}

☐ **Force reload in the CMS**
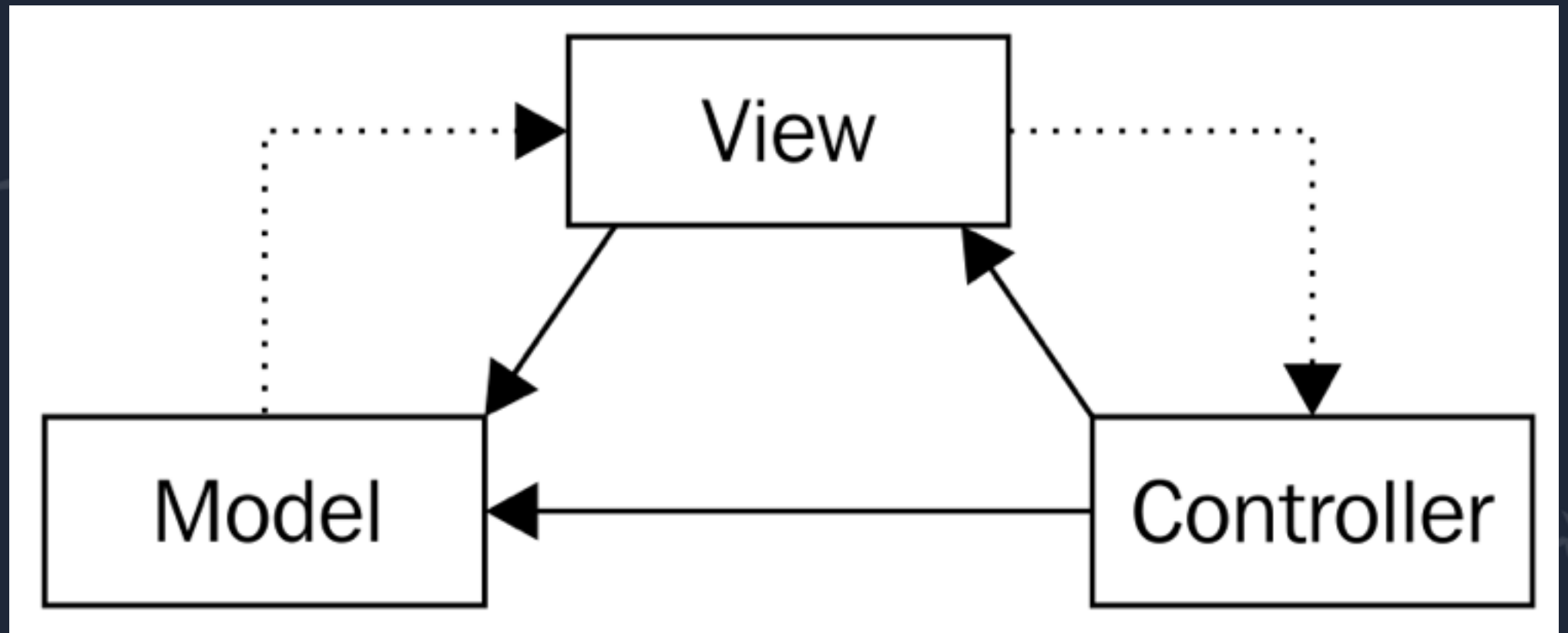
Under the Hood

☐ **Database tables**

☐ SiteConfig

☐ SiteTree**,** SiteTree_Live**,** SiteTree_versions

Framework

Basics

☐ **MVC**

☐ **Pulling data, not pushing it**

☐ **Object-oriented — extension via inheritance / mixins**

☐ **Everything is code**

Template Structure

- ☐ *mysite/templates/*, *mysite/css/*,…

- ☐ *themes/<name>/templates/*, *themes/<name>/css/*,…

- ☐ *themes/*

    - ☐ *Includes/*

    - ☐ *Layout/Page.ss* (optionally more)

    - ☐ *Page.ss*

Template Elements

- ☐ $Title, $Content, $SiteConfig.Title

- ☐ <% loop $Menu(1).Limit(5) %>
      $Link
  <% end_loop %>

- ☐ <% if not $Children %> … <% end_if %>

- ☐ <% with $CurrentMember %>
      $FirstName
  <% end_with %>

Template Changes

☐ *templates/Includes/Footer.ss*
Proudly powered by SilverStripe

☐ *templates/Page.ss*
<% include Subfooter %>

☐ *templates/Includes/Subfooter.ss*
<p>© ViennaPHP</p>

dont forget to ?flush=1

silverstripe

Triggering an Error

☐ **Delete an** <% end_... $>

☐ *mysite/_config/config.yml*: **dev, test, live**
   Director:
      environment_type: 'dev'

A New Page Type

- *mysite/code/MeetupPage.php* — Model and Controller

- *themes/simple/templates/Layout/ MeetupPage.ss* — View
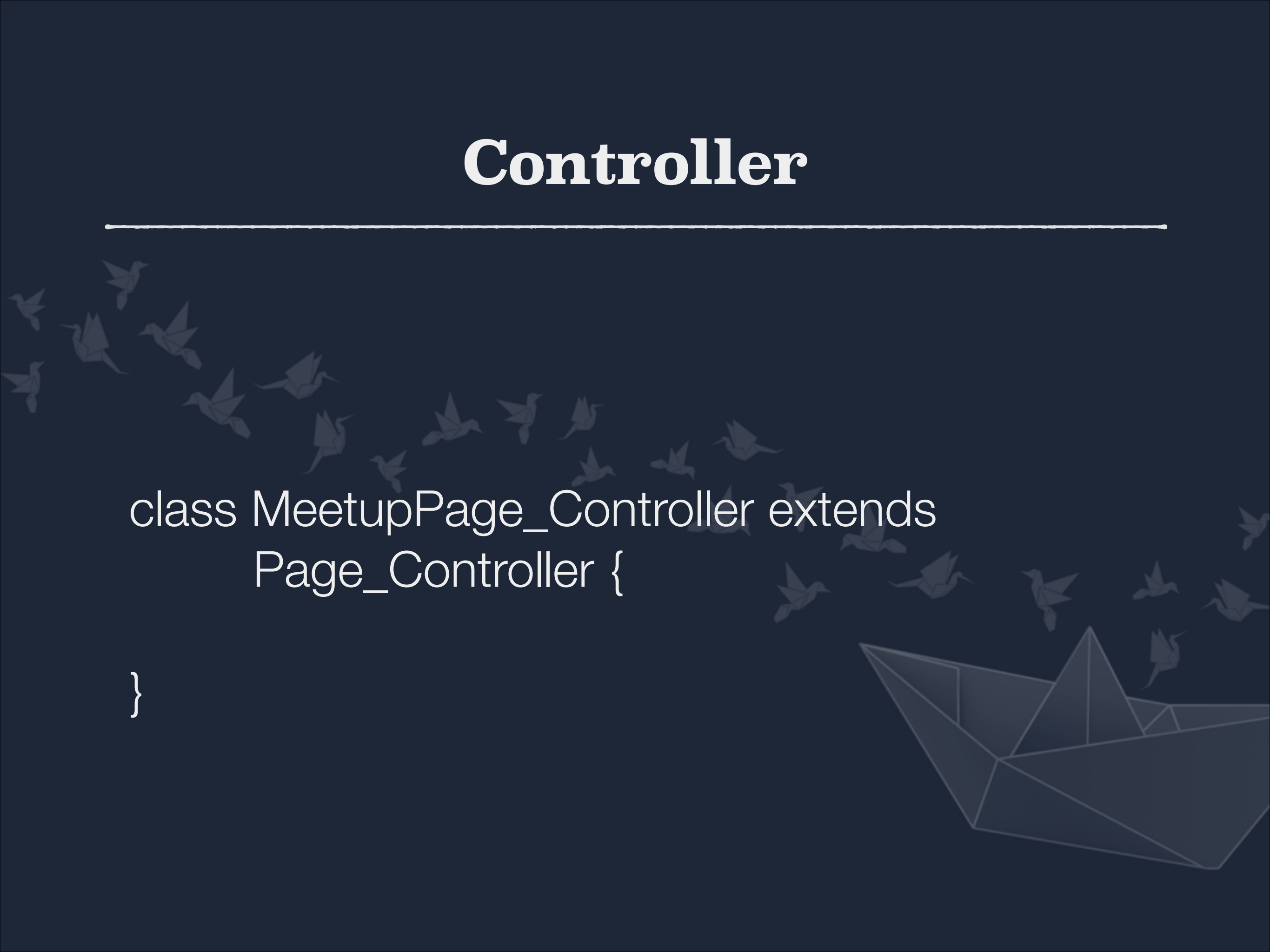
Model 1/2

```php
class MeetupPage extends Page {

    private static $db = array(
        'Date' => 'Date',
        'Type' => 'Enum("Unknown, PHP, Symfony,
                    Drupal, SilverStripe", "Unknown")',
    );

    private static $has_one = array(
        'Logo' => 'File',
    );
```

Model 2/2

```
public function getCMSFields() {
    $fields = parent::getCMSFields();
    $dateField = new DateField('Date');
    $dateField->setConfig('showcalendar', true);
    $fields->addFieldToTab('Root.Main', $dateField, 'Content');
    $fields->addFieldToTab('Root.Main',
            new DropdownField('Type', 'Type of event',
            singleton('MeetupPage')->dbObject('Type')->
            enumValues()), 'Content');
    $fields->addFieldToTab('Root.Main', new UploadField('Logo'),
            'Content');
    return $fields;
}
```

Controller

```
class MeetupPage_Controller extends
        Page_Controller {


}
```

Synchronize the Database

- ☐ http://viennaphp.local/dev/build?flush=all

- ☐ Add new page in the CMS

View

```
<% include SideBar %>
<div class="content-container unit size3of4 lastUnit">
    <article>
        <h1>$Title</h1>
        <h2>
            $Type
            <% if $Type == "SilverStripe" %>*yeah*<% end_if %>
        </h2>
        <h3>$Date</h3>
        <img src="$Logo.URL" alt="logo">
        <div class="content">$Content</div>
    </article>
    $Form
    $PageComments
</div>
```

Much More

- ☐ **DataObjects and Scaffolding**

- ☐ **Powerful forms with GridField**

- ☐ **Object-Relational Mapper**

- ☐ **RESTful API**

- ☐ **SOAP API**

- ☐ **Extensible permission system**

And a Little Less

- ☐ **Smallish community outside of New Zealand and Australia**

- ☐ **A manageable number of modules**

  - ☐ **Hint: https://github.com/search?q=silverstripe-&type=Repositories**

- ☐ **Few (good) themes**

More Information

http://www.silverstripe.org

http://vimeo.com/silverstripe

https://github.com/silverstripe

http://www.meetup.com/SilverStripe-Austria

Thanks

- Questions?

  - Now

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